

Enrichment Problems

Short Answer

1. Name all pairs of integers that have a sum of -3 .

+5		+6
	-10	
-9		-8
	+7	
+9		-12

2. Name all pairs of integers that have a difference of $+3$.

+2		-4
	-12	
-7		+5
	-9	
+10		+12

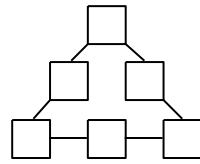
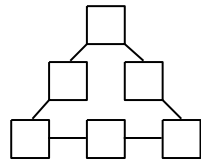
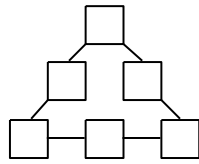
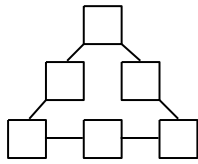
3. What number would you subtract from -5 to get -14 ?

Problem

4. Find all sets of 3 integers that have a sum of -2 .

-3	-6	-4
+1	+9	-3
-7	+4	+3

5. Copy and complete.
 $(+5) + (-2) + \square = (+7)$
6. Place the integers $-1, -2, -3, -4, -5$, and -6 in the squares so that the sum of each side of the triangle is:
- -9
 - -10
 - -11
 - -12



7. Write 0 as the sum of 11 consecutive integers.
8. Write 15 as the sum of 3 consecutive integers.
9. Find the value of n that makes the equation true.

$$n + n - (+3) = (-9)$$
10. Write the next 2 terms in each pattern.
 - a) $-6, -12, -18, -24, \dots$
 - b) $-13, -17, -21, -25, \dots$
 - c) $-1, -4, -7, -10, \dots$
11. Determine the value of n that makes the equation true.

$$n + n - (-7) = (-5)$$